

CITY OF ELKHART, INDIANA  
INDUSTRIAL WASTE QUESTIONNAIRE

SECTION A. GENERAL INFORMATION (Type or Print, Please)

1. Company Name ELKHART BRASS MFG. CO., INC.
2. Mailing Address P.O. BOX 1127
3. Address of Premises 1302 WEST BEARDSLEY AVENUE
4. Name and Title of Signing Official WARREN DEFERBRACHE, CHIEF I.E./MAINT. SUPVR.
5. Wastewater discharges to:  
City sewer system X  
Private septic system \_\_\_\_\_
6. If your facility discharges to the City sewer system, check the types of discharges:  
X Sanitary \_\_\_\_\_ Wash water \_\_\_\_\_ Rinse water  
\_\_\_\_\_ Cooling water \_\_\_\_\_ Process water \_\_\_\_\_ Scrubber water  
\_\_\_\_\_ Other \_\_\_\_\_

Note: If your facility discharges only to a private septic system and not to the City sewer system, or if only sanitary sewage is discharged to the City sewer system, it is only necessary to fill out Section A of this questionnaire. Otherwise, complete entire questionnaire.

7. Contact Official

Name WARREN DEFERBRACHE  
Title CHIEF I.E./MAINT. SUPVR.  
Address P.O. BOX 1127  
Phone Number 295-8330 EXT. 239 OR 250

The information contained in this questionnaire is familiar to me and to the best of my knowledge and belief, such information is true, complete, and accurate.

12-2-1983

Date

Warren R. Deferbrache  
Signature of Official

SECTION B. PRODUCT OR SERVICE INFORMATION

1. Brief description of manufacturing or service activity on premises:

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2. Principal Raw Materials Used:

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3. Catalysts, Intermediates:

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4. Principal Product or Service (use Standard Industrial Classification Manual if appropriate):

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5. Appended to this questionnaire is a list of Standard Industrial Classification (SIC) codes for industries currently or potentially subject to USEPA pretreatment regulations. List SIC codes for each of your processes that are subject to USEPA pretreatment regulations.

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SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. Type of Discharge: \_\_\_\_\_ Batch \_\_\_\_\_ Continuous \_\_\_\_\_ Both  
 For batch discharges, list types, average number of batches/24 hrs.  
 and volume (gallons) per batch. \_\_\_\_\_

2. Is there a scheduled shutdown? \_\_\_\_\_  
 When? \_\_\_\_\_

3. Is production seasonal? \_\_\_\_\_  
 If yes, explain indicating months(s) of peak production.  
 \_\_\_\_\_

4. Average number of employees per shift: \_\_\_\_\_ 1st; \_\_\_\_\_ 2nd; \_\_\_\_\_ 3rd

5. Shift start times: \_\_\_\_\_ 1st; \_\_\_\_\_ 2nd; \_\_\_\_\_ 3rd

6. Shifts normally worked each day of the week:

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
1st	_____	_____	_____	_____	_____	_____	_____
2nd	_____	_____	_____	_____	_____	_____	_____
3rd	_____	_____	_____	_____	_____	_____	_____

7. Describe any wastewater treatment equipment or processes in use:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SECTION D. WATER CONSUMPTION AND LOSS

1. Raw Water Sources:

<u>Source</u>	<u>Quantity</u>
_____	_____ gallons per day
_____	_____ gallons per day
_____	_____ gallons per day
_____	_____ gallons per day

2. Water treatment processes in use:

_____	Chemical coagulation, including use of alum, ferric chloride, polymers, etc.
_____	Lime softening
_____	Resin (ion exchange) water softening
_____	Filtration
_____	Chemical (chlorine or ozone) disinfection
_____	Others _____
	_____

3. List Water Consumption in Plant:

Cooling Water	_____ gallons per day
Boiler Feed	_____ gallons per day
Process Water	_____ gallons per day
Sanitary System*	_____ gallons per day
Contained in Product	_____ gallons per day
Other (                      )	_____ gallons per day

\*Sanitary flow can be estimated at 10 gpd per employee.

## 4. List average volume of discharge or water loss to:

City Wastewater Sewer	_____	gallons per day
Septic Tank Discharge	_____	gallons per day
Surface Discharge	_____	gallons per day
Waste Hauler	_____	gallons per day
Evaporation	_____	gallons per day
Contained in Product	_____	gallons per day

## 5. Is Discharge to Sewer: \_\_\_\_\_ Intermittent \_\_\_\_\_ Steady

## 6. List average water usage for SIC Processes itemized in Section B-5 above:

<u>Regulated SIC No.</u>	<u>Brief Process Description</u>	<u>Average Water Consumption(GPD)</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

### SECTION E. SEWER CONNECTION AND DISCHARGE INFORMATION

1. List plant sewer outlets and flow: (assign sequential reference number to each sewer starting with No. 1).

[illegible]

2. Attach a scaled drawing or dimensioned sketch of the industrial complex showing location of sewer referenced in E-1 above and location of the SIC process described in Section D-5. Show location of monitoring manhole, if any, and other possible sampling points for sewers and SIC process effluents. Indicate how City industrial monitoring staff can gain access to the sampling points. For reference and field orientation buildings, streets, alleys, and other pertinent physical structures should be included.
3. Is plant required to prepare a Spill Prevention Control and Countermeasure (SPCC) Plan per 40 CFR 112 or a RCRA Contingency Plan?  
\_\_\_\_\_ If report has been prepared, attach copy. Copy attached.  
\_\_\_\_\_ If report is required, but has not yet been prepared, indicate date when it will be submitted.

SECTION F. PRIORITY POLLUTANT INFORMATION

1. Please indicate by placing an "X" in the appropriate box by each listed chemical whether it is Suspected to be Absent, Known to be Absent, Suspected to be Present, or Known to be Present in your manufacturing or service activity or generated as a byproduct. Some compounds are known by other names. Please refer to Appendix A for those compounds which have an asterisk(\*).

ITEM NO.	CHEMICAL COMPOUND	SUSPECTED ABSENT	KNOWN ABSENT	SUSPECTED PRESENT	KNOWN PRESENT	ITEM NO.	CHEMICAL COMPOUND	SUSPECTED ABSENT	KNOWN ABSENT	SUSPECTED PRESENT	KNOWN PRESENT
1.	ammonia					47.	chlorobenzene				
2.	asbestos (fibrous)					48.	chloroethane*				
3.	cyanide (total)					49.	2-chloroethylvinyl ether				
4.	antimony (total)					50.	chloroform*				
5.	arsenic (total)					51.	chloromethane*				
6.	beryllium (total)					52.	2-chloronaphthalene				
7.	cadmium (total)					53.	2-chlorophenol*				
8.	chromium (total)					54.	4-chlorophenylphenyl ether				
9.	cooper (total)					55.	chrysene*				
10.	lead (total)					56.	4,4'-DDD*				
11.	mercury (total)					57.	4,4'-DDE*				
12.	nickel (total)					58.	4,4'-DDT*				
13.	selenium (total)					59.	dibenzo(a,h)anthracene*				
14.	silver (total)					60.	dibromochloromethane*				
15.	thallium (total)					61.	1,2-dichlorobenzene*				
16.	zinc (total)					62.	1,3-dichlorobenzene*				
17.	acenaphthene					63.	1,4-dichlorobenzene*				
18.	acenaphthylene					64.	3,3'-dichlorobenzidine				
19.	acrolein					65.	dichlorodifluoromethane*				
20.	acrylonitrile					66.	1,1-dichloroethane*				
21.	aldrin					67.	1,2-dichloroethane*				
22.	anthracene					68.	1,1-dichloroethene*				
23.	benzene					69.	trans-1,2-dichloroethene*				
24.	benzidine					70.	2,4-dichlorophenol				
25.	benzo(a)anthracene*					71.	1,2-dichloropropane*				
26.	benzo(a)pyrene*					72.	(cis & trans)1,3-dichloropropane*				
27.	benzo(b)fluoranthene					73.	dieldrin				
28.	benzo(g,h,i)perylene*					74.	diethyl phthalate*				
29.	benzo(k)fluoranthene*					75.	2,4-dimethylphenol*				
30.	a-BHC (alpha)					76.	dimethyl phthalate				
31.	b-BHC (beta)					77.	di-n-butyl phthalate				
32.	d-BHC (delta)					78.	di-n-octyl phthalate*				
33.	g-BHC (gamma)					79.	4,6-dinitro-2-methylphenol*				
34.	bis(2-chloroethyl)ether*					80.	2,4-dinitrophenol				
35.	bis(2-chloroethoxymethyl)ether*					81.	2,4-dinitrotoluene				
36.	bis(2-chloroisopropyl)ether*					82.	2,6-dinitrotoluene*				
37.	bis(chloromethyl)ether*					83.	1,2-diphenylhydrazine*				
38.	bis(2-ethylhexyl)phthalate*					84.	endosulfan I*				
39.	bromodichloromethane*					85.	endosulfan II*				
40.	bromoform*					86.	endosulfan sulfate				
41.	bromomethane*					87.	endrin				
42.	4-bromophenylphenyl ether*					88.	endrin aldehyde				
43.	butylbenzyl phthalate					89.	ethylbenzene				
44.	carbon tetrachloride*					90.	fluoranthene				
45.	chlordane					91.	fluorene*				
46.	4-chloro-3-methylphenol*					92.	heptachlor				
						93.	heptachlor epoxide				

2. For chemical compounds in F-2 above which are indicated to be "Known Present," please list and provide the following data for each: (attach additional sheets if needed).

-8-



3. List any other chemicals known or anticipated to be present in the discharge.

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4. Describe, what if any, laboratory analyses have been conducted on process waste streams in the plant, including which streams were sampled, what parameters were measured, and frequency and type of samples. (The baseline report referred to in G2 below can be referenced in answering this question.)

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**SECTION G. PRETREATMENT**

1. Is this plant subject to an existing Pretreatment Standard?

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2. Is this plant required to submit a baseline report per 40 CFR 403.12? \_\_\_\_\_ If a baseline report has been prepared, attach a copy to this questionnaire. Copy attached. \_\_\_\_\_ If a baseline report is required, but has not yet been prepared, indicate date that it will be submitted. \_\_\_\_\_

3. If subject to Federal Pretreatment Standards, are the standards being met on a consistent basis? (The baseline report can be referred to in answering this question.)

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4. Are additional pretreatment facilities and/or operation and maintenance required to meet Pretreatment Standards? If additional pretreatment and/or operation and maintenance are required, list the schedule by which they will be provided. (The baseline report can be referred to in answering this question.)

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5. Describe residuals (sludges, precipitates, etc.) that are produced or result at your facility and the methods employed to dispose of the residuals. List names of waste haulers, if applicable.

TRAMP OIL AND DEGREASER SLUDGE

GOLD SHIELD SOLVENTS

2263 DISTRIBUTORS DRIVE

INDIANAPOLIS, IN 46241

E. S. A. INDUSTRIAL WASTE SURVEY  
PRELIMINARY ANALYSIS  
SHEET

Date 8-16-83

Sampling Point #1 ELKHART BRASS

Inv. to

P.O. Box 1127

Elkhart, Ind. 46515

Map Loc. #

No. of Samples 1

Type of Sample Composite

Hrs. of Sampling 2.7

No. of Sample Points 1

<u>Parameters</u>	<u>Analyze For</u>	<u>Parameters</u>	<u>Analyze For</u>
pH.....	8.4	Arsenic.....	
BOD (5 day).....	41	Cadmium.....	*.10
COD.....		Chromium hexavalent.....	
Chlorine Demand.....		Chromium total.....	*.10
Color.....		Copper.....	
Total Solids.....		Lead.....	*.10
TSS.....	26	Iron.....	
Settleable Solids.....		Manganese.....	
Grease & Oil.....		Mercury.....	
Phenols.....		Nickle.....	*.10
Chloride.....		Zinc.....	.59
Sulfate.....			
Sulfides.....			
Total Phosphorus.....	.30		
Cyanide.....			
T.O.C.....			
Ammonia Nitrogen.....			

E. S. A. INDUSTRIAL WASTE SURVEY  
PRELIMINARY ANALYSIS  
SHEET

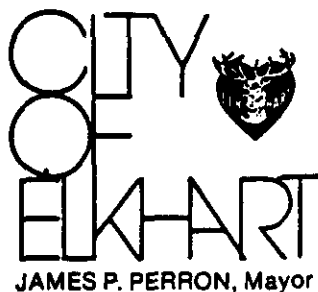
Date 8-17-83  
Sampling Point #1 ELKHART BRASS

Map Loc. # \_\_\_\_\_  
No. of Samples 1  
Type of Sample Composite  
Hrs. of Sampling 2.4  
No. of Sample Points 1

<u>Parameters</u>	<u>Analyze For</u>
pH.....	7.4
BOD (5 day).....	12
COD.....	
Chlorine Demand.....	
Color.....	
Total Solids.....	
TSS.....	32
Settleable Solids.....	
Grease & Oil.....	
Phenols.....	
Chloride.....	
Sulfate.....	
Sulfides.....	
Total Phosphorus.....	.50
Cyanide.....	
T.O.C.....	
Ammonia Nitrogen.....	

<u>Parameters</u>	<u>Analyze For</u>
Arsenic.....	
Cadmium.....	*.10
Chromium hexavalent.....	
Chromium total.....	*.10
Copper.....	*.10
Lead.....	*.10
Iron.....	
Manganese.....	
Mercury.....	
Nickle.....	
Zinc.....	

R. D. INGRAHAM, Manager



WASTEWATER TREATMENT PLANT  
1201 South Nappanee Street  
Elkhart, Indiana 46516  
(219) 293-2572

May 9, 1986

Mr. Warren DeFerbrache  
Elkhart Brass Mfg. Co., Inc.  
P.O. Box 1127  
Elkhart, Ind. 46515

Dear Mr. DeFerbrache:

This is in response to your verbal request to Mr. Larry Pozgay to discharge water from two underground tanks into the City sewer system.

Based on the test results of this water which you submitted, the Wastewater Treatment Plant would be happy to accept the discharge from the 20,000 gallon tank which contained no Volatile Organic Compounds at detectable levels.

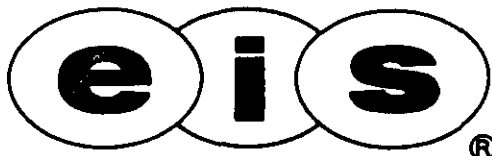
We are unable, however, to accept the discharge at this time from the 12,000 gallon tank due to the presence of various toxic substances. We would suggest that Elkhart Brass contract a licensed hazardous waste hauler to remove this waste. This would protect the Wastewater Treatment Plant from receiving any hazardous waste and would provide Elkhart Brass with certification that the waste was disposed of in the proper manner.

We would like to thank Elkhart Brass for their co-operation with the City in this matter. Please contact either Mr. Pozgay or me should you have any questions or comments. Thank you.

Sincerely,

David A. Bates  
Pretreatment Director

COPIES: R. D. Ingraham  
Larry Pozgay ✓



# EIS ENVIRONMENTAL ENGINEERS, INC.

1701 North Ironwood Drive • South Bend, Indiana 46635 • Telephone (219) 277-5715

## VOLATILE ORGANIC COMPOUND (VOC) ANALYSIS REPORT

Client: Elkhart Brass

c/o Warren R. Deferbrache

P.O. # 04463

Sample ID: Project Number 1268-02

- 1) Underground Tank #1 20000 gallons
- 2) 12000 gallon Tank #2

Date Reported: 5-1-86

EIS Lab No.: 1639F, 1640F

Sample Date: 4-29-86

Date Received: 4-29-86

Date Analyzed: 4-30-86

Samples Received

Refrigerated: Yes ☐ No ☐

In 40cc Vials: Yes ☐ No ☐

Air Space: Yes ☐ No ☐

### RESULTS

- The test procedures used for this analysis, and the listing of compounds detectable by these procedures, are described in Table 1 on the reverse side of this report sheet.
- If your sample contained any of the Table 1 Priority Pollutant Volatile Organic Compounds above a Quantifiable Detection Limit of  $\mu\text{g/l}$ , these compounds are reported below. If no Table 1 Volatile Organic Compounds were detected, then a statement to this effect is listed below.
- Results are as follows:

#### 20000 Gallon Underground Tank

No Volatile Organic Compounds were detected at a Quantifiable Detection Limit of  $10 \mu\text{g/l}$ .

The Ignitability Test resulted in No Flash Point but the sample itself ignited at  $139^\circ\text{F}$ .

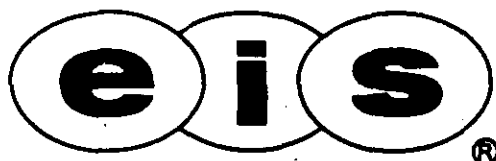
#### 12000 Gallon Tank

<u>Parameter</u>	<u>Concentration (<math>\mu\text{g/l}</math>)</u>
Ethyl Benzene	95
Toluene	170
Xylenes	570
Multicomponent Residue*	20500
1,1,1-Trichloroethane	180

\* Defined as a "species" similar to fuel oil or paint residuals and quantitated using a Toluene standard.

This sample has a Flash Point  $>162^\circ\text{F}$ .

*Andri Rozite*  
LABORATORY DIRECTOR



## EIS ENVIRONMENTAL ENGINEERS, INC.

1701 North Ironwood Drive • South Bend, Indiana 46635 • Telephone (219) 277-5715

## VOLATILE ORGANIC COMPOUND (VOC) ANALYSIS REPORT

Client: Elkhart Brassc/o Warren R. DeferbracheP.O. # 04463Sample ID: Project Number 1268-02

- 1) Underground Tank #1 20000 gallons
- 2) 12000 gallon Tank #2

Date Reported: 5-1-86EIS Lab No.: 1639F, 1640FSample Date: 4-29-86Date Received: 4-29-86Date Analyzed: 4-30-86

Samples Received

Refrigerated: Yes ☐ No ☐In 40cc Vials: Yes ☐ No ☐Air Space: Yes ☐ No ☐

## RESULTS

- The test procedures used for this analysis, and the listing of compounds detectable by these procedures, are described in Table 1 on the reverse side of this report sheet.
- If your sample contained any of the Table 1 Priority Pollutant Volatile Organic Compounds above a Quantifiable Detection Limit of  $\mu\text{g/l}$ , these compounds are reported below. If no Table 1 Volatile Organic Compounds were detected, then a statement to this effect is listed below.
- Results are as follows:

20000 Gallon Underground Tank

No Volatile Organic Compounds were detected at a Quantifiable Detection Limit of  $10 \mu\text{g/l}$ .

The Ignitability Test resulted in No Flash Point but the sample itself ignited at  $139^\circ\text{F}$ .

12000 Gallon Tank

Parameter	Concentration ( $\mu\text{g/l}$ )
Ethyl Benzene	95
Toluene	170
Xylenes	570
Multicomponent Residue*	20500
1,1,1-Trichloroethane	180

\* Defined as a "species" similar to fuel oil or paint residuals and quantitated using a Toluene standard.

This sample has a Flash Point  $>162^\circ\text{F}$ .

*Xylene - haz. substance + waste*

*Toluene - haz. substance + waste*

*Ethyl Benzene - haz. subst.*

*+ priority toxic pollutant*

*Andri Rozitt*  
LABORATORY DIRECTOR

*1,1,1 - Haz waste - priority toxic pollutant*

TABLE 1

PARTIAL LISTING - VOLATILE ORGANIC COMPOUNDS  
SPECIES DETECTABLE USING METHODS STATED BELOW

- - - - - PRIORITY POLLUTANTS - - - - -		- NON PRIORITY POLLUTANTS -
Benzene	1,2-Dichloroethane	Acetone
Bromodichloromethane	1,1-Dichloroethylene	Dichlorodifluoromethane
Bromoform	t-1,2-Dichloroethylene	Methyl Ethyl Ketone
Bromomethane	1,2-Dichloropropane	Methyl Isobutyl Ketone
Carbon Tetrachloride	c-1,2-Dichloropropene	Styrene
Chlorobenzene	t-1,2-Dichloropropene	Trichlorofluoromethane
Chloroethane	Ethyl Benzene	Vinyl Acetate
2-Chloroethylvinyl Ether	Methylene Chloride	Xylene
Chloroform	1,1,2,2-Tetrachloroethane	2-Hexanone
Chloromethane	Tetrachloroethylene	
Dibromochloromethane	1,1,1-Trichloroethane	
1,2-Dichlorobenzene	1,1,2-Trichloroethane	
1,3-Dichlorobenzene	Toluene	
1,4-Dichlorobenzene	Trichloroethylene	
1,1-Dichloroethane	Vinyl Chloride	

REFERENCES

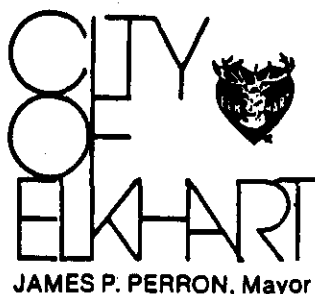
- . "Test Methods: Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater" USEPA-600/4-82-057, July 1982, Method 601 and Method 602
- . "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" SW-846, July 1982, Methods 5030, 8010, 8020.

ANALYTICAL PROCEDURES

- . Purge and Trap, Gas Chromatography is utilized.
- . The effluent from the gas chromatographic column is monitored by Photoionization and Hall 700A Electrolytic Conductivity Detectors operating in series.
- . Surrogate compounds are added prior to the Purge step to monitor overall system performance. The surrogates also function as Retention Time Standards.
- . Quantitation is made by external standards.
- . Identification is made by relative retention times and responses to the two in series detectors.



R. D. INGRAHAM, Manager



WASTEWATER TREATMENT PLANT  
1201 South Nappanee Street  
Elkhart, Indiana 46516  
(219) 293-2572

June 6, 1986

Mr. Warren DeFerbrache  
Elkhart Brass Mfg. Co., Inc.  
P.O. Box 1127  
Elkhart, Indiana 46515

Dear Mr. DeFerbrache:

We would like to thank you for your time and consideration in allowing us the opportunity to inspect your facility on this date. We feel that it is very important for the City of Elkhart to work in co-operation with industry to insure the protection of our environment.

The City of Elkhart Pretreatment Staff would like to take this opportunity to thank you and your company for your co-operation and assistance with our Pretreatment Program. Please feel free to contact us with any comments or questions you may have.

Sincerely,

A handwritten signature in dark ink, appearing to read "David A. Bates", with a long horizontal flourish extending to the right.

David A. Bates  
Pretreatment Director

A handwritten signature in dark ink, appearing to read "Larry Pozgay", written in a cursive style.

Larry Pozgay  
Laboratory Manager

COPY: R.D. Ingraham



INDUSTRIAL INSPECTION FORM

INDUSTRY Elkhart Brass Mfg. Co., Inc. DATE June 6, 1986

ADDRESS 1302 West Beardsley Ave., Elkhart, Ind

TIME STARTED 1:30 PM TIME COMPLETED 2:00 PM

PURPOSE OF INSPECTION Check process water usage for possible SIU  
status.

SAMPLE(S) TAKEN-----YES      NO X TYPE     

SAMPLE TIME (GRAB):

#1 <u>    </u>	#6 <u>    </u>	#11 <u>    </u>
#2 <u>    </u>	#7 <u>    </u>	#12 <u>    </u>
#3 <u>    </u>	#8 <u>    </u>	#13 <u>    </u>
#4 <u>    </u>	#9 <u>    </u>	#14 <u>    </u>
#5 <u>    </u>	#10 <u>    </u>	#15 <u>    </u>

COMPOSITE SAMPLE FROM      TO     

NOTES: Facility operates two shifts. First shift from 7 AM to 3:30 PM and second shift from 3:30 to 11 PM. Second shift has only about five employees. Foundry works only 1st shift.

Largest water usage is for testing of fire fighting equipment, up to 1000 gpm. Some machines have closed loop non-contact cooling water.

Foundry has no water usage.

All underground storage tanks have been removed from the site and the areas have been concreted over.

Vapor degreaser uses 1,1,1 Trichloroethylene. Newer unit is located on floor area. Old unit was inside of self-contained trench which has sump pump.

It would not appear that this facility would qualify as a Significant Industrial User at this time.

INSPECTION AND/OR SAMPLING BY JB LRP  
Dave Bates/Larry Pozgay